

VECTOR CALCULUS SOLUTIONS

1.) Gradient

Position vector:

$$\mathbf{r} = xi + yj + zk$$

$$r = \|\mathbf{r}\| = \sqrt{x^2 + y^2 + z^2}$$

Equation a:

$$\varphi(x, y, z) = x^2 + y^2 + z^2$$

$$\nabla \varphi = \frac{\partial \varphi}{\partial x}i + \frac{\partial \varphi}{\partial y}j + \frac{\partial \varphi}{\partial z}k$$

$$\nabla \varphi = \frac{\partial}{\partial x}(x^2 + y^2 + z^2)i + \frac{\partial}{\partial y}(x^2 + y^2 + z^2)j + \frac{\partial}{\partial z}(x^2 + y^2 + z^2)k$$

$$\nabla \varphi = (2x + 0 + 0)i + (0 + 2y + 0)j + (0 + 0 + 2z)k$$

$$\nabla \varphi = 2xi + 2yj + 2zk$$

Write in terms of the position vector:

$$\varphi(x, y, z) = x^2 + y^2 + z^2 = r^2$$

$$\nabla \varphi = 2xi + 2yj + 2zk = 2(xi + yj + zk) = 2r$$

Therefore:

$$\nabla r^2 = 2r$$

Equation b:

$$\varphi(x, y, z) = \frac{1}{\sqrt{x^2 + y^2 + z^2}}$$

$$\nabla \varphi = \frac{\partial \varphi}{\partial x}i + \frac{\partial \varphi}{\partial y}j + \frac{\partial \varphi}{\partial z}k$$

$$\nabla \varphi = \frac{\partial}{\partial x}\left(\frac{1}{\sqrt{x^2 + y^2 + z^2}}\right)i + \frac{\partial}{\partial y}\left(\frac{1}{\sqrt{x^2 + y^2 + z^2}}\right)j + \frac{\partial}{\partial z}\left(\frac{1}{\sqrt{x^2 + y^2 + z^2}}\right)k$$

$$\nabla \varphi = -\frac{x}{(x^2 + y^2 + z^2)^{\frac{3}{2}}}i - \frac{y}{(x^2 + y^2 + z^2)^{\frac{3}{2}}}j - \frac{z}{(x^2 + y^2 + z^2)^{\frac{3}{2}}}k$$

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